

SSSSSSSS SSSSSSSS SS SS SS SS SSSSSS SSSSSS SS SS SS SSSSSSSS SSSSSSSS	TTTTTTTTT TTTTTTTTT TT TT TT TT TT TT TT TT TT TT TT	AAAAAA AAAAAA AA AA AA AA AA AA AAAAAA AAAAAA AA AA AA AA	BBBBBBBB BBBBBBBB BB BB BB BB BBBBBBBB BBBBBBBB BB BB BB BBBBBBBB BBBBBBBB	AAAAAA AAAAAA AA AA AA AA AA AA AAAAAA AAAAAA AA AA AA AA	CCCCCCCC CCCCCCCC CC CC CC CC CC CC CC CC CC CCCCCCCC CCCCCCCC	CCCCCCCC CCCCCCCC CC CC CC CC CC CC CC CC CC CCCCCCCC CCCCCCCC	000000 000000 00 00 00 00 00 00 00 00 00 00 000000 000000	PPPPPPPP PPPPPPPP PP PP PP PP PPPPPPPP PPPPPPPP PP PP PP PP PP PP PP
LL LL LL LL LL LL LL LL LL LL LL LLLLLLLLLL LLLLLLLLLL	IIIIII IIIIII II II II II II II II II II IIIIII IIIIII	SSSSSSSS SSSSSSSS SS SS SS SS SSSSSS SSSSSS SS SS SS SSSSSSSS SSSSSSSS							


```
1 0001 0 MODULE STABACCOP(XTITLE 'Copy image file for Standalone BACKUP kit'
2 0002 0      MAIN = STABACCOP,
3 0003 0      IDENT = 'V04-000'
4 0004 0      ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
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28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY:
34 0034 1     General utility programs.
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1     This program copies an image file, deleting the appended patch text.
38 0038 1     It is used and supported only for generation of Standalone BACKUP kits.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1     VAX/VMS user mode.
42 0042 1 --
43 0043 1
44 0044 1 AUTHOR: M. Jack, CREATION DATE: 16-Sep-1982
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1     V03-002 CWH3002      CW Hobbs      4-Oct-1983
49 0049 1     Change CTG to CBT so that a segmented SYS does not have to
50 0050 1     be contiguous.
51 0051 1
52 0052 1     V03-001 CWH3001      CW Hobbs      8-Sep-1983
53 0053 1     Add the ability to segment a file, specifically so that
54 0054 1     SYS.EXE can be split across two volumes.
55 0055 1
56 0056 1 **
```

```
: 58      0057 1 LIBRARY 'SYS$LIBRARY:LIB';
: 59      0058 1
: 60      0059 1
: 61      0060 1 LITERAL
: 62      0061 1         TRUE=          1;
: 63      0062 1         FALSE=         0;
: 64      0063 1
: 65      0064 1
: 66      0065 1 STRUCTURE
: 67      0066 1         BBLOCK[O,P,S,E;N]=
: 68      0067 1             [N]
: 69      0068 1             (BBLOCK + 0)<P,S,E>;
: 70      0069 1
: 71      0070 1
: 72      0071 1 PSECT
: 73      0072 1         CODE=          CODE,
: 74      0073 1         PLIT=          CODE,
: 75      0074 1         OWN=           DATA,
: 76      0075 1         GLOBAL=        DATA;
: 77      0076 1
: 78      0077 1
: 79      0078 1 FORWARD ROUTINE
: 80      0079 1         STABACOP,
: 81      0080 1         FILE_ERROR:    NOVALUE;
: 82      0081 1
: 83      0082 1
: 84      0083 1 EXTERNAL ROUTINE
: 85      0084 1         LIB$GET_FOREIGN: ADDRESSING_MODE(GENERAL),
: 86      0085 1         OT$SCVT_TI_L:   ADDRESSING_MODE(GENERAL);
```



```

88 0086 1 ROUTINE STABACCOP=
89 0087 1
90 0088 1 ++
91 0089 1
92 0090 1 FUNCTIONAL DESCRIPTION:
93 0091 1 This routine is the main entry point for the STABACCOP program. It
94 0092 1 copies an image file, removing the appended patch text. It is used and
95 0093 1 supported only for generation of Standalone BACKUP kits.
96 0094 1
97 0095 1 INPUT PARAMETERS:
98 0096 1 Standard VMS activation parameters (not used).
99 0097 1
100 0098 1 IMPLICIT INPUTS:
101 0099 1 NONE
102 0100 1
103 0101 1 OUTPUT PARAMETERS:
104 0102 1 NONE
105 0103 1
106 0104 1 IMPLICIT OUTPUTS:
107 0105 1 NONE
108 0106 1
109 0107 1 ROUTINE VALUE:
110 0108 1 Completion status.
111 0109 1
112 0110 1 SIDE EFFECTS:
113 0111 1 NONE
114 0112 1
115 0113 1 --
116 0114 1
117 0115 2 BEGIN
118 0116 2 LOCAL
119 0117 2
120 0118 2 COMMAND_DESC: BBLOCK[DSC$K-S-BLN], | Descriptor for command buffer
121 0119 2 INFILE_DESC: BBLOCK[DSC$K-S-BLN], | Descriptor for input file name
122 0120 2 OUTFILE_DESC: BBLOCK[DSC$K-S-BLN], | Descriptor for output file name
123 0121 2 VAL_DESC: BBLOCK[DSC$K-S-BLN], | Descriptor for numeric value
124 0122 2 COMMAND_BUFFER: VECTOR[132,BYTE], | Command buffer
125 0123 2 P, | Pointer to space
126 0124 2 INPUT_FAB: $FAB_DECL, | FAB for input file
127 0125 2 INPUT_NAM: $NAM_DECL, | NAM block for input file
128 0126 2 INPUT_XAB: $XABFHC_DECL, | File header XAB for input file
129 0127 2 INPUT_RSA: VECTOR[NAM$C-MAXRSS,BYTE], | Resultant string for input file
130 0128 2 OUTPUT_FAB: $FAB_DECL, | FAB for output file
131 0129 2 OUTPUT_RAB: $RAB_DECL, | RAB for output file
132 0130 2 OUTPUT_NAM: $NAM_DECL, | NAM block for output file
133 0131 2 OUTPUT_RSA: VECTOR[NAM$C-MAXRSS,BYTE], | Resultant string for output file
134 0132 2 RETADR: VECTOR[2], | Return addresses from $CRMPSC
135 0133 2 IHD: REF BBLOCK, | Pointer to IHD
136 0134 2 IHP: REF BBLOCK, | Pointer to IHP
137 0135 2 FILE_SIZE, | Size of file copied
138 0136 2 BLOCKS_LEFT, | Number of blocks left to copy
139 0137 2 START_BLK, | Starting block (numbered 0 to N-1)
140 0138 2 SEGMENT_SIZE : INITIAL (99999), | Size of file segment
141 0139 2 INPUT_RSA_DESC: VECTOR[2], | Descriptor for input RSA
142 0140 2 OUTPUT_RSA_DESC: VECTOR[2], | Descriptor for output RSA
143 0141 2 STATUS_1, | Status return
144 0142 2 STATUS_2, | Status return
144 0142 2 LITERAL
```



```
145 0143 2 FACILITY = 103; ! Steal COPY's prefix
146 0144 2
147 0145 2
148 0146 2 ! Get the foreign command line. It must be of the form:
149 0147 2 ! <input-file-specification> <space> <output-file-specification> [ <space> <start-vbn> <space> <segmen
150 0148 2
151 0149 2 COMMAND_DESC[DSCSW_LENGTH] = %ALLOCATION(COMMAND_BUFFER);
152 0150 2 COMMAND_DESC[DSCSB_DTYPE] = DSCSK_DTYPE_T;
153 0151 2 COMMAND_DESC[DSCSB_CLASS] = DSCSK_CLASS_S;
154 0152 2 COMMAND_DESC[DSCSA_POINTER] = COMMAND_BUFFER;
155 0153 2 STATUS_1 = LIB$GET_FOREIGN(COMMAND_DESC, 0, COMMAND_DESC);
156 0154 2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
157 0155 2
158 0156 2
159 0157 2 ! Locate the space between the input and output file specifications.
160 0158 2
161 0159 2 P = CH$FIND_CH(.COMMAND_DESC[DSCSW_LENGTH], .COMMAND_DESC[DSCSA_POINTER], %C' ');
162 0160 2 IF .P EQL 0 THEN RETURN SS$BADPARAM;
163 0161 2 INFILE_DESC [DSCSW_LENGTH] = .P - .COMMAND_DESC [DSCSA_POINTER]; ! Set input name
164 0162 2 INFILE_DESC [DSCSA_POINTER] = .COMMAND_DESC [DSCSA_POINTER];
165 0163 2 COMMAND_DESC [DSCSA_POINTER] = .P + 1; ! Remove input name
166 0164 2 COMMAND_DESC [DSCSW_LENGTH] = .COMMAND_DESC [DSCSW_LENGTH] - 1 - .INFILE_DESC [DSCSW_LENGTH];
167 0165 2
168 0166 2 ! Locate the output file spec
169 0167 2
170 0168 2 P = CH$FIND_CH(.COMMAND_DESC[DSCSW_LENGTH], .COMMAND_DESC[DSCSA_POINTER], %C' ');
171 0169 2 IF .P EQL 0
172 0170 2 THEN
173 0171 2 BEGIN
174 0172 2 !
175 0173 2 ! No optional numbers, the rest of the command string is the output file name
176 0174 2 !
177 0175 2 OUTFILE_DESC [DSCSW_LENGTH] = .COMMAND_DESC [DSCSW_LENGTH];
178 0176 2 OUTFILE_DESC [DSCSA_POINTER] = .COMMAND_DESC [DSCSA_POINTER];
179 0177 2 END
180 0178 2 ELSE
181 0179 2 BEGIN
182 0180 2 OUTFILE_DESC [DSCSW_LENGTH] = .P - .COMMAND_DESC [DSCSA_POINTER]; ! Set input name
183 0181 2 OUTFILE_DESC [DSCSA_POINTER] = .COMMAND_DESC [DSCSA_POINTER];
184 0182 2 COMMAND_DESC [DSCSA_POINTER] = .P + 1; ! Remove input name
185 0183 2 COMMAND_DESC [DSCSW_LENGTH] = .COMMAND_DESC [DSCSW_LENGTH] - 1 - .OUTFILE_DESC [DSCSW_LENGTH];
186 0184 2 !
187 0185 2 ! Now get the two optional numbers
188 0186 2 !
189 0187 2 P = CH$FIND_CH(.COMMAND_DESC[DSCSW_LENGTH], .COMMAND_DESC[DSCSA_POINTER], %C' ');
190 0188 2 IF .P EQL 0
191 0189 2 THEN
192 0190 2 RETURN SS$BADPARAM;
193 0191 2 VAL_DESC [DSCSW_LENGTH] = .P - .COMMAND_DESC [DSCSA_POINTER]; ! Set input name
194 0192 2 VAL_DESC [DSCSA_POINTER] = .COMMAND_DESC [DSCSA_POINTER];
195 0193 2 COMMAND_DESC [DSCSA_POINTER] = .P + 1; ! Remove input name
196 0194 2 COMMAND_DESC [DSCSW_LENGTH] = .COMMAND_DESC [DSCSW_LENGTH] - 1 - .VAL_DESC [DSCSW_LENGTH];
197 0195 2 IF NOT (STATUS_1 = 0) THEN
198 0196 2 RETURN .STATUS_1;
199 0197 2 IF (START_BLK = .START_BLK-1) LSS 0
200 0198 2 THEN
201 0199 2
```



```
202 0200 3 RETURN SSS_BADPARAM;
203 0201 4 IF NOT (STATUS_1 = OTSCVT_TI_L (COMMAND_DESC, SEGMENT_SIZE))
204 0202 3 THEN
205 0203 3 RETURN .STATUS_1;
206 0204 3 END;
207 0205 3
208 0206 3 ! Open the input file.
209 0207 3
210 P 0208 3 $FAB INIT(FAB=INPUT_FAB,
211 P 0209 3 DNA=UPLIT BYTE('EXE'),
212 P 0210 3 DNS=CHARCOUNT('EXE'),
213 P 0211 3 FNA=.INFILE_DESC[DSCSA_POINTER],
214 P 0212 3 FNS=.INFILE_DESC[DSCSW_LENGTH],
215 P 0213 3 FOP=UFO,
216 P 0214 3 NAM=INPUT_NAM,
217 0215 3 XAB=INPUT_XAB);
218 P 0216 3 $NAM INIT(NAM=INPUT_NAM,
219 P 0217 3 RSA=INPUT_RSA,
220 0218 3 RSS=NAMSC_MAXRSS);
221 0219 3 $XABFHC INIT(XAB=INPUT_XAB);
222 0220 3 IF NOT $OPEN(FAB=INPUT_FAB)
223 0221 3 THEN
224 0222 3 FILE_ERROR(FACILITY^16 + SHR$_OPENIN + STSK_SEVERE, INPUT_FAB, INPUT_FAB);
225 0223 3
226 0224 3
227 0225 3 ! Ensure that the file has appropriate characteristics for an image file:
228 0226 3 ! sequential with fixed length 512 byte records and no record attributes.
229 0227 3
230 0228 3 IF .INPUT_FAB[FAB$B_ORG] NEQ FAB$C_SEQ
231 0229 3 OR .INPUT_FAB[FAB$B_RFM] NEQ FAB$C_FIX
232 0230 3 OR .INPUT_FAB[FAB$W_MRS] NEQ 512
233 0231 3 OR .INPUT_FAB[FAB$B_RAT] NEQ 0
234 0232 3 THEN
235 0233 3 BEGIN
236 0234 3 INPUT_FAB[FAB$L_STS] = SSS_BADIMGHDR;
237 0235 3 INPUT_FAB[FAB$L_STV] = 0;
238 0236 3 FILE_ERROR(FACILITY^16 + SHR$_OPENIN + STSK_SEVERE, INPUT_FAB, INPUT_FAB);
239 0237 3 END;
240 0238 3
241 0239 3
242 0240 3 ! Map the file into memory.
243 0241 3
244 P 0242 3 STATUS_2 = $CRMPSC(
245 P 0243 3 INADR=UPLIT(0, 0),
246 P 0244 3 RETADR=RETADR,
247 P 0245 3 FLAGS=SECSM_CRF OR SECSM_EXPREG OR SECSM_WRT,
248 0246 3 CHAN=.INPUT_FAB[FAB$L_STV]);
249 0247 3 IF NOT .STATUS_2
250 0248 3 THEN
251 0249 3 BEGIN
252 0250 3 INPUT_FAB[FAB$L_STS] = .STATUS_2;
253 0251 3 INPUT_FAB[FAB$L_STV] = 0;
254 0252 3 FILE_ERROR(FACILITY^16 + SHR$_OPENIN + STSK_SEVERE, INPUT_FAB, INPUT_FAB);
255 0253 3 END;
256 0254 3
257 0255 3
258 0256 3 ! Examine the image header to determine the location of the patch text.
```



```
259 0257 2 !
260 0258 2 IHD = .RETADR[0];
261 0259 2 IF .IHD[IHDSW_PATCHOFF] NEQ 0
262 0260 2 THEN
263 0261 2 BEGIN
264 0262 2 IHP = .IHD + .IHD[IHDSW_PATCHOFF];
265 0263 2 IF .IHP[IHPSL_PATCOMTXT] NEQ 0
266 0264 2 THEN
267 0265 2 BEGIN
268 0266 2 INPUT_XAB[XAB$$_EBK] = .IHP[IHPSL_PATCOMTXT];
269 0267 2 INPUT_XAB[XAB$$_FFB] = 0;
270 0268 2 IHP[IHPSL_PATCOMTXT] = 0;
271 0269 2 END;
272 0270 2 END;
273 0271 2
274 0272 2 ! Determine the size of the output file
275 0273 2
276 0274 2 IF .INPUT_XAB[XAB$$_FFB] EQL 0
277 0275 2 THEN
278 0276 2 INPUT_XAB[XAB$$_EBK] = .INPUT_XAB[XAB$$_EBK] - 1;
279 0277 2 FILE_SIZE = MIN ((.INPUT_XAB[XAB$$_EBK] - .START_BLK), .SEGMENT_SIZE);
280 0278 2
281 0279 2 ! Create the output file.
282 0280 2
283 P 0281 2 $FAB_INIT(FAB=OUTPUT_FAB,
284 P 0282 2 ALQ=.FILE_SIZE,
285 P 0283 2 DNA=UPLIT_BYTE('EXE'),
286 P 0284 2 DNS=%CHARCOUNT('EXE'),
287 P 0285 2 FAC=BIO,
288 P 0286 2 FNA=.OUTFILE_DESC[DSCSA_POINTER],
289 P 0287 2 FNS=.OUTFILE_DESC[DSCSW_LENGTH],
290 P 0288 2 FOP=<CTG,OFPS>,
291 P 0289 2 MRS=512,
292 P 0290 2 NAM=OUTPUT_NAM,
293 P 0291 2 ORG=SEQ,
294 P 0292 2 RFM=FIX);
295 P 0293 2 $RAB_INIT(RAB=OUTPUT_RAB,
296 P 0294 2 FAB=OUTPUT_FAB,
297 P 0295 2 ROP=BIO);
298 P 0296 2 $NAM_INIT(NAM=OUTPUT_NAM,
299 P 0297 2 RLF=INPUT_NAM,
300 P 0298 2 RSA=OUTPUT_RSA,
301 0299 2 RSS=NAM$C_MAXRSS);
302 0300 2 IF .SEGMENT_SIZE NEQ 99999 ! If segmenting, then don't need contiguous
303 0301 2 THEN
304 0302 2 BEGIN
305 0303 2 OUTPUT_FAB [FAB$$_CTG] = FALSE;
306 0304 2 OUTPUT_FAB [FAB$$_CBT] = TRUE;
307 0305 2 END;
308 0306 2 IF NOT $CREATE(FAB=OUTPUT_FAB)
309 0307 2 THEN
310 0308 2 FILE_ERROR(FACILITY*16 + SHR$_OPENOUT + STS$K_SEVERE, OUTPUT_FAB, OUTPUT_FAB);
311 0309 2 IF NOT $CONNECT(RAB=OUTPUT_RAB)
312 0310 2 THEN
313 0311 2 FILE_ERROR(FACILITY*16 + SHR$_OPENOUT + STS$K_SEVERE, OUTPUT_FAB, OUTPUT_RAB);
314 0312 2
315 0313 2
```



```
316 0314 2 ! Write the output file.
317 0315 2 !
318 0316 2 OUTPUT_RAB[RAB$L_RBF] = (.IHD + (.START_BLK*512));
319 0317 2 BLOCKS_LEFT = .FILE_SIZE;
320 0318 2 WHILE .BLOCKS_LEFT GTR 0 DO
321 0319 2 BEGIN
322 0320 2 LOCAL
323 0321 2 BLOCKS;
324 0322 2
325 0323 2 BLOCKS = MIN(.BLOCKS_LEFT, 127);
326 0324 2 BLOCKS_LEFT = .BLOCKS_LEFT - .BLOCKS;
327 0325 2 OUTPUT_RAB[RAB$W_RSZ] = .BLOCKS * 512;
328 0326 2 IF NOT $WRITE(RAB=OUTPUT_RAB)
329 0327 2 THEN
330 0328 2 FILE_ERROR(FACILITY*16 + SHR$WRITEERR + STS$K_SEVERE, OUTPUT_FAB, OUTPUT_RAB);
331 0329 2 OUTPUT_RAB[RAB$L_RBF] = .OUTPUT_RAB[RAB$L_RBF] + .OUTPUT_RAB[RAB$W_RSZ];
332 0330 2 END;
333 0331 2
334 0332 2 ! Close the output file.
335 0333 2 !
336 0334 2 IF NOT $CLOSE(FAB=OUTPUT_FAB)
337 0335 2 THEN
338 0336 2 FILE_ERROR(FACILITY*16 + SHR$_CLOSEOUT + STS$K_SEVERE, OUTPUT_FAB, OUTPUT_FAB);
339 0337 2
340 0338 2
341 0339 2 ! Log the copied message.
342 0340 2 !
343 0341 2 INPUT_RSA_DESC[0] = .INPUT_NAM[NAM$B_RSL];
344 0342 2 INPUT_RSA_DESC[1] = .INPUT_NAM[NAM$L_RSA];
345 0343 2 OUTPUT_RSA_DESC[0] = .OUTPUT_NAM[NAM$B_RSL];
346 0344 2 OUTPUT_RSA_DESC[1] = .OUTPUT_NAM[NAM$L_RSA];
347 0345 2 SIGNAL(FACILITY*16 + SHR$_COPIEDB + STS$K_SUCCESS, 3, INPUT_RSA_DESC, OUTPUT_RSA_DESC, .FILE_SIZE);
348 0346 2
349 0347 2
350 0348 2 ! Return with success.
351 0349 2 !
352 0350 2 !
353 0351 2 SSS_NORMAL
354 0352 1 END;
```

.TITLE STABACCOP Copy image file for Standalone BACKUP
kit

.IDENT \V04-000\

.PSECT CODE,NOWRT,2

45	58	45	2E	00000	P.AAA:	.ASCII	\.EXE\	:
00000000	00000000	00004	P.AAB:	.LONG	0, 0	:	:	:
45	58	45	2E	0000C	P.AAC:	.ASCII	\.EXE\	:

.EXTRN LIB\$GET_FOREIGN
.EXTRN OTS\$CVT_TI_L, SYSS\$OPEN
.EXTRN SYSS\$CRMPSC, SYSS\$CREATE
.EXTRN SYSS\$CONNECT, SYSS\$WRITE
.EXTRN SYSS\$CLOSE


```
03FC 00000 STABACCOP:
59 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9 : 0086
58 0000V CF 9E 00009 MOVAB OTSS$CVT_TI_L, R9
5E FB6C CE 9E 0000E MOVAB FILE_ERROR, R8
04 AE 0001869F 8F D0 00013 MOVAB -1172(SP), SP
F8 AD 010E0084 8F D0 0001B MOVL #99999, SEGMENT_SIZE : 0115
FC AD FF5C CD 9E 00023 MOVL #17694852, COMMAND_DESC : 0149
F8 AD 7E D4 0002C MOVAB COMMAND_BUFFER, COMMAND_DESC+4 : 0152
F8 AD 9F 00029 PUSHAB COMMAND_DESC : 0153
00000000G 00 03 FB 00031 CLRL -(SP)
52 50 D0 00038 PUSHAB COMMAND_DESC
03 52 E8 0003B CALLS #3, LIB$GET_FOREIGN
FC BD F8 AD 00BA 31 0003E BRW R0, STATUS_T : 0154
20 3A 00041 1$: LOCC STATUS_1, TS : 0159
02 12 00047 BNEQ 2$
51 D4 00049 CLRL R1
51 D5 0004B 2$: TSTL P : 0160
66 13 0004D BEQL 6$
F0 AD 51 FC AD A3 0004F SUBW3 COMMAND_DESC+4, P, INFILE_DESC : 0161
F4 AD FC AD D0 00055 MOVL COMMAND_DESC+4, INFILE_DESC+4 : 0162
50 AD 01 A1 9E 0005A MOVAB 1(R1), COMMAND_DESC+4 : 0163
53 AD F8 AD 3C 0005F MOVZWL COMMAND_DESC, R0 : 0164
50 AD F0 AD 3C 00063 MOVZWL INFILE_DESC, R3
F8 AD 50 01 A3 0006A SUBL2 R3, R0
FC BD F8 AD 20 3A 0006F SUBW3 #1, R0, COMMAND_DESC : 0168
02 12 00075 LOCC #32, COMMAND_DESC, @COMMAND_DESC+4
51 D4 00077 CLRL R1
51 D5 00079 3$: TSTL P : 0169
0C 12 0007B BNEQ 4$
E8 AD F8 AD B0 0007D MOVW COMMAND_DESC, OUTFILE_DESC : 0175
EC AD FC AD D0 00082 MOVL COMMAND_DESC+4, OUTFILE_DESC+4 : 0176
76 11 00087 BRB 10$ : 0169
E8 AD 51 FC AD A3 00089 4$: SUBW3 COMMAND_DESC+4, P, OUTFILE_DESC : 0180
EC AD FC AD D0 0008F MOVL COMMAND_DESC+4, OUTFILE_DESC+4 : 0181
50 AD 01 A1 9E 00094 MOVAB 1(R1), COMMAND_DESC+4 : 0182
53 AD F8 AD 3C 00099 MOVZWL COMMAND_DESC, R0 : 0183
50 AD E8 AD 3C 0009D MOVZWL OUTFILE_DESC, R3
F8 AD 50 01 A3 000A1 SUBL2 R3, R0
FC BD F8 AD 20 3A 000A9 SUBW3 #1, R0, COMMAND_DESC : 0187
02 12 000AF LOCC #32, COMMAND_DESC, @COMMAND_DESC+4
51 D4 000B1 CLRL R1
51 D5 000B3 5$: TSTL P : 0188
31 13 000B5 6$: BEQL 7$
E0 AD 51 FC AD A3 000B7 SUBW3 COMMAND_DESC+4, P, VAL_DESC : 0191
E4 AD FC AD D0 000BD MOVL COMMAND_DESC+4, VAL_DESC+4 : 0192
50 AD 01 A1 9E 000C2 MOVAB 1(R1), COMMAND_DESC+4 : 0193
51 AD F8 AD 3C 000C7 MOVZWL COMMAND_DESC, R0 : 0194
50 AD E0 AD 3C 000CB MOVZWL VAL_DESC, R1
F8 AD 50 01 A3 000D2 SUBL2 R1, R0
5E DD 000D7 SUBW3 #1, R0, COMMAND_DESC : 0195
E0 AD 9F 000D9 PUSHL SP
69 02 FB 000DC PUSHAB VAL_DESC
CALLS #2, -OTSS$CVT_TI_L
```


0050	8F	00	52	50	D0	000DF	MOVL	R0, STATUS_1	0198
			16	52	E9	000E2	BLBC	STATUS_1, 9\$	0200
			04	6E	F4	000E5	SOBGEQ	START_BLK, 8\$	
			50	14	D0	000E8	MOVL	#20, R0	
				04	04	000EB	RET		
				AE	9F	000EC	PUSHAB	SEGMENT_SIZE	0201
				AD	9F	000EF	PUSHAB	COMMAND_DESC	
			69	02	FB	000F2	CALLS	#2, OTSSCVT_TI_L	
			52	50	D0	000F5	MOVL	R0, STATUS_1	
			04	52	E8	000F8	BLBS	STATUS_1, 10\$	
			50	52	D0	000FB	MOVL	STATUS_1, R0	0203
				04	04	000FE	RET		
			6E	00	2C	000FF	MOVC5	#0, (SP), #0, #80, \$RMS_PTR	0215
				CD		00106			
			FF0C	CD	8F	B0	MOVW	#20483, \$RMS_PTR	
			FF10	CD	8F	D0	MOVL	#131072, \$RMS_PTR+4	
			FF22	CD	02	90	MOVB	#2, \$RMS_PTR+22	
			FF2B	CD	02	90	MOVB	#2, \$RMS_PTR+31	
			FF30	CD	CD	9E	MOVAB	INPUT_XAB, \$RMS_PTR+36	
			FF34	CD	CD	9E	MOVAB	INPUT_NAM, \$RMS_PTR+40	
			FF38	CD	AD	D0	MOVL	INFILE_DESC+4, \$RMS_PTR+44	
			FF3C	CD	CF	9E	MOVAB	P.AAA, \$RMS_PTR+48	
			FF40	CD	AD	90	MOVB	INFILE_DESC, \$RMS_PTR+52	
			FF41	CD	04	90	MOVB	#4, \$RMS_PTR+53	
0060	8F	00	6E	00	2C	00149	MOVC5	#0, (SP), #0, #96, \$RMS_PTR	0218
				CD		00150			
			FEAC	CD	8F	B0	MOVW	#24578, \$RMS_PTR	
			FEAE	CD	01	8E	MNEGB	#1, \$RMS_PTR+2	
			FEBO	CD	CE	9E	MOVAB	INPUT_RSA, \$RMS_PTR+4	
			6E	00	2C	00166	MOVC5	#0, (SP), #0, #44, \$RMS_PTR	0219
				CD		0016B			
			FE80	CD	8F	B0	MOVW	#11293, \$RMS_PTR	
				CD	CD	9F	PUSHAB	INPUT_FAB	0220
			00000000G	00	01	FB	CALLS	#1, SYS\$OPEN	
			11	50	E8	00180	BLBS	R0, 11\$	
				CD	CD	9F	PUSHAB	INPUT_FAB	0222
				CD	CD	9F	PUSHAB	INPUT_FAB	
			0067109C	8F	DD	0018B	PUSHL	#6754460	
			68	03	FB	00191	CALLS	#3, FILE_ERROR	
				CD	95	00194	TSTB	INPUT_FAB+29	0228
				16	12	00198	BNEQ	12\$	
			01	CD	91	0019A	CMPB	INPUT_FAB+31, #1	0229
				0F	12	0019F	BNEQ	12\$	
			0200	8F	CD	B1	CMPW	INPUT_FAB+54, #512	0230
				06	12	001A8	BNEQ	12\$	
				CD	95	001AA	TSTB	INPUT_FAB+30	0231
				1B	13	001AE	BEQL	13\$	
			FF14	CD	8F	9A	MOVZBL	#68, INPUT_FAB+8	0234
				CD	D4	001B6	CLRL	INPUT_FAB+12	0235
				CD	9F	001BA	PUSHAB	INPUT_FAB	0236
				CD	9F	001BE	PUSHAB	INPUT_FAB	
			0067109C	8F	DD	001C2	PUSHL	#6754460	
			68	03	FB	001C8	CALLS	#3, FILE_ERROR	
				7E	7C	001CB	CLRQ	-(SP)	0246
				7E	7C	001CD	CLRQ	-(SP)	
				CD	DD	001CF	PUSHL	INPUT_FAB+12	
				7E	7C	001D3	CLRQ	-(SP)	

			0002000A	7E	D4	001D5	CLRL	-(SP)		
				8F	DD	001D7	PUSHL	#131082		
			40	7E	D4	001DD	CLRL	-(SP)		
			FE0E	AE	9F	001DF	PUSHAB	RETADR		
				CF	9F	001E2	PUSHAB	P.AAB		
00000000G	00			0C	FB	001E6	CALLS	#12, SYSSCRMPSC		
	1A			50	E8	001ED	BLBS	STATUS-2, 14\$		0247
FF14	CD			50	D0	001F0	MOVL	STATUS-2, INPUT_FAB+8		0250
		FF18		CD	D4	001F5	CLRL	INPUT_FAB+12		0251
		FF0C		CD	9F	001F9	PUSHAB	INPUT_FAB		0252
		FF0C		CD	9F	001FD	PUSHAB	INPUT_FAB		
		0067109C		8F	DD	00201	PUSHL	#6754460		
	68			03	FB	00207	CALLS	#3, FILE ERROR		
	56	18		AE	D0	0020A	14\$:	MOVL	RETADR, IHD	0258
		08		A6	B5	0020E	TSTW	8(IHD)		0259
				19	13	00211	BEQL	15\$		
	50	08		A6	3C	00213	MOVZWL	8(IHD), IHP		0262
	50			56	C0	00217	ADDL2	IHD, IHP		
		20		A0	D5	0021A	TSTL	32(IHP)		0263
				0D	13	0021D	BEQL	15\$		
FE90	CD	20		A0	D0	0021F	MOVL	32(IHP), INPUT_XAB+16		0266
		FE94		CD	B4	00225	CLRW	INPUT_XAB+20		0267
		20		A0	D4	00229	CLRL	32(IHP)		0268
		FE94		CD	B5	0022C	15\$:	TSTW	INPUT_XAB+20	0274
				04	12	00230	BNEQ	16\$		
		FE90		CD	D7	00232	DECL	INPUT_XAB+16		0276
50	FE90	CD		6E	C3	00236	16\$:	SUBL3	START_BLK, INPUT_XAB+16, R0	0277
	04	AE		50	D1	0023C	CMPL	R0, SEGMENT_SIZE		
				04	15	00240	BLEQ	17\$		
		50	04	AE	D0	00242	MOVL	SEGMENT_SIZE, R0		
		57		50	D0	00246	17\$:	MOVL	R0, FILE_SIZE	
0050	8F	00		6E	00	2C	00249	MOVC5	#0, (SP), #0, #80, \$RMS_PTR	0292
			01C4	CE	CE	00250				
			5003	8F	B0	00253	MOVW	#20483, \$RMS_PTR		
			20100000	8F	D0	0025A	MOVL	#537919488, \$RMS_PTR+4		
				57	D0	00263	MOVL	FILE_SIZE, \$RMS_PTR+16		
				20	90	00268	MOVB	#32, \$RMS_PTR+22		
			01E1	CE	94	0026D	CLRB	\$RMS_PTR+29		
				01	90	00271	MOVB	#1, \$RMS_PTR+31		
			0120	CE	9E	00276	MOVAB	OUTPUT_NAM, \$RMS_PTR+40		
			EC	AD	D0	0027D	MOVL	OUTFILE_DESC+4, \$RMS_PTR+44		
			FD75	CF	9E	00283	MOVAB	P.AAC, \$RMS_PTR+48		
			E8	AD	90	0028A	MOVB	OUTFILE_DESC, \$RMS_PTR+52		
				04	90	00290	MOVB	#4, \$RMS_PTR+53		
			0200	8F	B0	00295	MOVW	#512, \$RMS_PTR+54		
0044	8F	00		00	2C	0029C	MOVC5	#0, (SP), #0, #68, \$RMS_PTR		0295
			0180	CE	CE	002A3				
			4401	8F	B0	002A6	MOVW	#17409, \$RMS_PTR		
			0800	8F	3C	002AD	MOVZWL	#2048, \$RMS_PTR+4		
			01C4	CE	9E	002B4	MOVAB	OUTPUT_FAB, \$RMS_PTR+60		
0060	8F	00		00	2C	002BB	MOVC5	#0, (SP), #0, #96, \$RMS_PTR		0299
			0120	CE	CE	002C2				
			6002	8F	B0	002C5	MOVW	#24578, \$RMS_PTR		
				01	8E	002CC	MNEGB	#1, \$RMS_PTR+2		
			20	AE	9E	002D1	MOVAB	OUTPUT_RSA, \$RMS_PTR+4		
			FEAC	CD	9E	002D7	MOVAB	INPUT_NAM, \$RMS_PTR+16		
0001869F	8F		04	AE	D1	002DE	CMPL	SEGMENT_SIZE, #99999		0300

01CA	CE	0A	13	002E6	BEQL	18\$	
01CA	CE	10	8A	002E8	BICB2	#16, OUTPUT_FAB+6	0303
		20	88	002ED	BISB2	#32, OUTPUT_FAB+6	0304
00000000G	00	CE	9F	002F2	PUSHAB	OUTPUT_FAB	0306
	11	01	FB	002F6	CALLS	#1, SYS\$CREATE	
		50	E8	002FD	BLBS	RO, 19\$	
		CE	9F	00300	PUSHAB	OUTPUT_FAB	0308
		CE	9F	00304	PUSHAB	OUTPUT_FAB	
	68	006710A4	8F	DD	PUSHL	#6754488	
		03	FB	0030E	CALLS	#3, FILE ERROR	
00000000G	00	CE	9F	00311	PUSHAB	OUTPUT_RAB	0309
	11	01	FB	00315	CALLS	#1, SYS\$CONNECT	
		50	E8	0031C	BLBS	RO, 20\$	
		CE	9F	0031F	PUSHAB	OUTPUT_RAB	0311
		CE	9F	00323	PUSHAB	OUTPUT_FAB	
	68	006710A4	8F	DD	PUSHL	#6754488	
		03	FB	0032D	CALLS	#3, FILE ERROR	
01A8	50		09	78	ASHL	#9, START_BLK, RO	0316
CE	50		56	C1	ADDL3	IHD, RO, OUTPUT_RAB+40	
	52		57	D0	MOVL	FILE_SIZE, BLOCKS_LEFT	0317
			52	D5	TSTL	BLOCKS_LEFT	0318
			46	15	BLEQ	24\$	
	50		52	D0	MOVL	BLOCKS_LEFT, RO	0323
0000007F	8F		50	D1	CMPL	RO, #127	
			04	15	BLEQ	22\$	
	50	7F	8F	9A	MOVZBL	#127, RO	
	52		50	C2	SUBL2	BLOCKS, BLOCKS_LEFT	0324
01A2	CE		8F	A5	MULW3	#512, BLOCKS, OUTPUT_RAB+34	0325
	50	0200	CE	9F	PUSHAB	OUTPUT_RAB	0326
		0180	01	FB	CALLS	#1, SYS\$WRITE	
00000000G	00		50	E8	BLBS	RO, 23\$	
	11		CE	9F	PUSHAB	OUTPUT_RAB	0328
		0180	CE	9F	PUSHAB	OUTPUT_FAB	
		01C8	8F	DD	PUSHL	#67545T6	
	68	006710D4	03	FB	CALLS	#3, FILE ERROR	
	50	01A2	CE	3C	MOVZWL	OUTPUT_RAB+34, RO	0329
01A8	CE		50	C0	ADDL2	RO, OUTPUT_RAB+40	
			B6	11	BRB	21\$	0318
		01C4	CE	9F	PUSHAB	OUTPUT_FAB	0335
00000000G	00		01	FB	CALLS	#1, SYS\$CLOSE	
	11		50	E8	BLBS	RO, 25\$	
		01C4	CE	9F	PUSHAB	OUTPUT_FAB	0337
		01C8	CE	9F	PUSHAB	OUTPUT_FAB	
	68	0067105C	8F	DD	PUSHL	#6754396	
			03	FB	CALLS	#3, FILE ERROR	
	10	FEAF	CD	9A	MOVZBL	INPUT_NAM+3, INPUT_RSA_DESC	0342
	14	FEBO	CD	D0	MOVL	INPUT_NAM+4, INPUT_RSA_DESC+4	0343
	08	0123	CE	9A	MOVZBL	OUTPUT_NAM+3, OUTPUT_RSA_DESC	0344
	0C	0124	CE	D0	MOVL	OUTPUT_NAM+4, OUTPUT_RSA_DESC+4	0345
			57	DD	PUSHL	FILE_SIZE	0346
		0C	AE	9F	PUSHAB	OUTPUT_RSA_DESC	
		18	AE	9F	PUSHAB	INPUT_RSA_DESC	
			03	DD	PUSHL	#3	
		00671061	8F	DD	PUSHL	#6754401	
00000000G	00		05	FB	CALLS	#5, LIB\$SIGNAL	
	50		01	D0	MOVL	#1, RO	0352
			04	003D8	RET		

STABACCOP
V04-000

Copy image file for Standalone BACKUP kit

F 15
16-Sep-1984 00:57:22
14-Sep-1984 11:54:04

VAX-11 Bliss-32 V4.0-742
[BACKUP.SRC]STABACCOP.B32;1

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; Routine Size: 985 bytes, Routine Base: CODE + 0010


```
356 0353 1 ROUTINE FILE_ERROR(MESSAGE,FAB,FRAB): NOVALUE=
357 0354 1
358 0355 1 !++
359 0356 1
360 0357 1 FUNCTIONAL DESCRIPTION:
361 0358 1 This routine handles signalling of file-related errors.
362 0359 1
363 0360 1 INPUT PARAMETERS:
364 0361 1 MESSAGE - Message code to be signalled.
365 0362 1 FAB - FAB for the file, to obtain the file specification.
366 0363 1 FRAB - FAB or RAB that sustained the error, to obtain
367 0364 1 STS and STV.
368 0365 1
369 0366 1 IMPLICIT INPUTS:
370 0367 1 NONE
371 0368 1
372 0369 1 OUTPUT PARAMETERS:
373 0370 1 NONE
374 0371 1
375 0372 1 IMPLICIT OUTPUTS:
376 0373 1 NONE
377 0374 1
378 0375 1 ROUTINE VALUE:
379 0376 1 NONE
380 0377 1
381 0378 1 SIDE EFFECTS:
382 0379 1 Message signalled.
383 0380 1
384 0381 1 !--
385 0382 1
386 0383 2 BEGIN
387 0384 2 MAP
388 0385 2 FAB: REF BBLOCK, ! Pointer to FAB
389 0386 2 FRAB: REF BBLOCK; ! Pointer to FAB or RAB
390 0387 2 LOCAL
391 0388 2 NAM: REF BBLOCK, ! Pointer to NAM block
392 0389 2 DESC: VECTOR[2]; ! Descriptor for file specification
393 0390 2
394 0391 2
395 0392 2 ! Set up the file name descriptor.
396 0393 2
397 0394 2 NAM = .FAB[FAB$SL_NAM];
398 0395 2 IF .NAM[NAM$B_RSL] NEQ 0
399 0396 2 THEN
400 0397 2 BEGIN
401 0398 2 DESC[0] = .NAM[NAM$B_RSL];
402 0399 2 DESC[1] = .NAM[NAM$SL_RSA];
403 0400 2 END
404 0401 2 ELSE IF .NAM[NAM$B_ESL] NEQ 0
405 0402 2 THEN
406 0403 2 BEGIN
407 0404 2 DESC[0] = .NAM[NAM$B_ESL];
408 0405 2 DESC[1] = .NAM[NAM$SL_ESA];
409 0406 2 END
410 0407 2 ELSE
411 0408 2 BEGIN
412 0409 2 DESC[0] = .FAB[FAB$B_FNS];
```

```
: 413      0410 3      DESC[1] = .FAB[FAB$L_FNA];  
: 414      0411 2      END;  
: 415      0412 2  
: 416      0413 2  
: 417      0414 2 ! Signal the message.  
: 418      0415 2  
: 419      0416 2 SIGNAL(.MESSAGE, 1, DESC, .FRAB[FAB$L_STS], .FRAB[FAB$L_STV]);  
: 420      0417 1 END;
```

0000 00000 FILE_ERROR:						
	5E	08	C2 00002	.WORD	Save nothing	: 0353
	51	08	AC D0 00005	SUBL2	#8, SP	: 0394
	50	28	A1 D0 00009	MOVL	FAB, R1	
		03	A0 95 0000D	MOVL	40(R1), NAM	: 0395
			0B 13 00010	TSTB	3(NAM)	
	6E	03	A0 9A 00012	BEQL	1\$: 0398
04	AE	04	A0 D0 00016	MOVZBL	3(NAM), DESC	: 0399
			19 11 0001B	MOVL	4(NAM), DESC+4	: 0395
		0B	A0 95 0001D	BRB	3\$: 0401
			0B 13 00020	TSTB	11(NAM)	
	6E	0B	A0 9A 00022	BEQL	2\$: 0404
04	AE	0C	A0 D0 00026	MOVZBL	11(NAM), DESC	: 0405
			09 11 0002B	MOVL	12(NAM), DESC+4	: 0401
	6E	34	A1 9A 0002D	BRB	3\$: 0409
04	AE	2C	A1 D0 00031	MOVZBL	52(R1), DESC	: 0410
	50	0C	AC D0 00036	MOVL	44(R1), DESC+4	: 0416
	7E	08	A0 7D 0003A	MOVL	FRAB, R0	
		08	AE 9F 0003E	MOVQ	8(R0), -(SP)	
			01 DD 00041	PUSHAB	DESC	
		C4	AC DD 00043	PUSHL	#1	
00000000G 00		05	FB 00046	PUSHL	MESSAGE	
		04	0004D	CALLS	#5, LIB\$SIGNAL	
				RET		: 0417

; Routine Size: 78 bytes, Routine Base: CODE + 03E9

STABACCOP
V04-000

Copy image file for Standalone BACKUP kit

I 15
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14-Sep-1984 11:54:04

VAX-11 Bliss-32 V4.0-742
[BACKUP.SRC]STABACCOP.B32;1

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: 422 0418 1 END
: 423 0419 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

:
: Name Bytes Attributes
: CODE 1079 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

:
: File Total Symbols Loaded Percent Pages Mapped Processing Time
: _\$255\$DUA28:[SYSLIB]LIB.L32;1 18619 126 0 1000 00:01.9

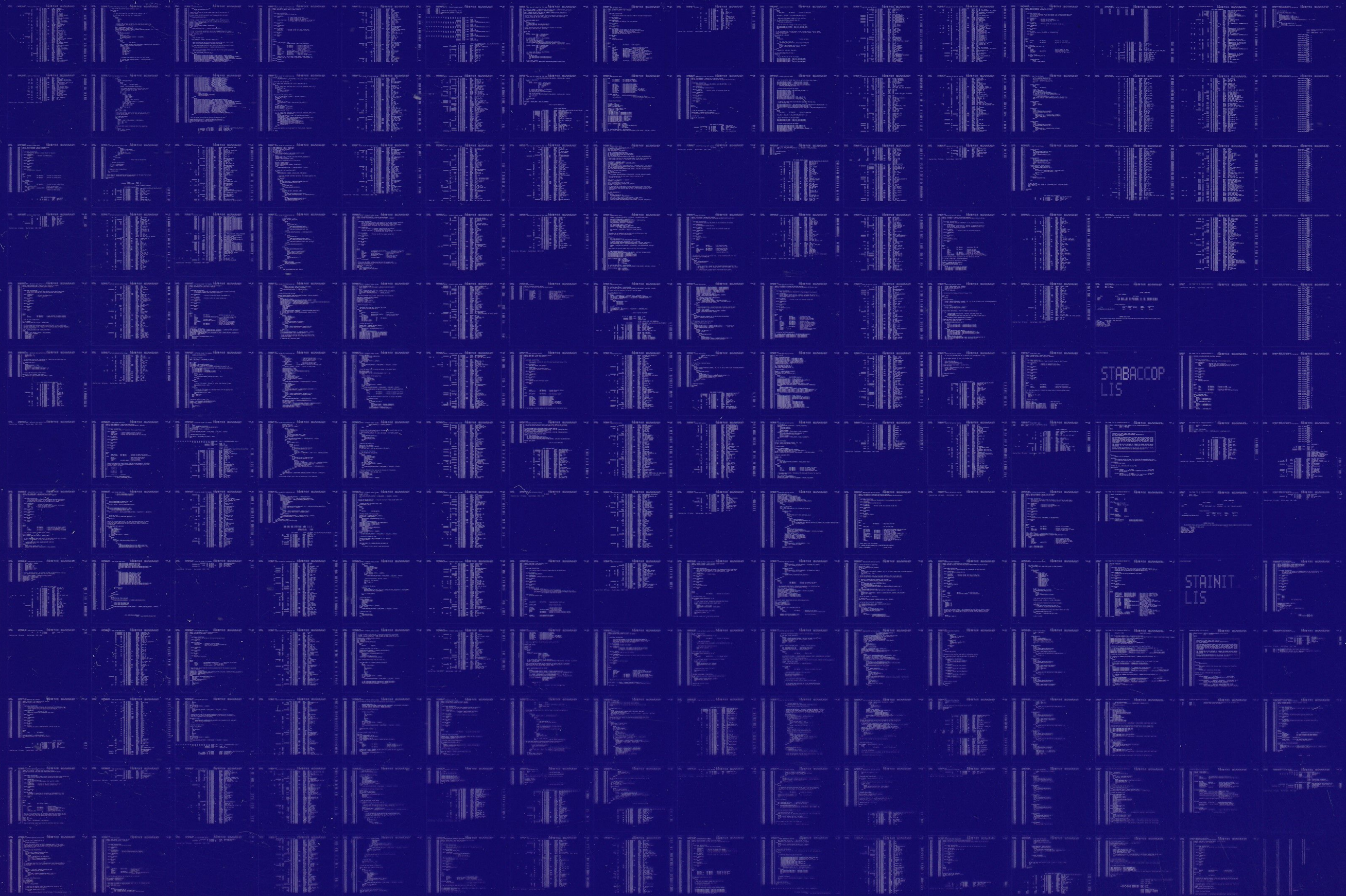
COMMAND QUALIFIERS

:
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:STABACCOP/OBJ=OBJ\$:STABACCOP MSRC\$:STABACCOP/UPDATE=(ENH\$:STABACCOP)

: Size: 1063 code + 16 data bytes
: Run Time: 00:21.6
: Elapsed Time: 01:14.2
: Lines/CPU Min: 1162
: Lexemes/CPU-Min: 35087
: Memory Used: 280 pages
: Compilation Complete

0015 AH-BT13A-SE
VAX/VMS V4.0

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